

**NATIONAL CONFERENCE ON**  
**Multidisciplinary Approaches in**  
**Engineering, Social Sciences,**  
**Humanities & Management**

**ESHM - 2024**

**Organized By:**



**SAMBHRAM**  
**INSTITUTE OF TECHNOLOGY**

**Sambhram Institute of Technology (SaIT)**

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**Editors**

**Dr. C. V. Ravishankar**  
**Dr. H. G. Chandrakanth**  
**Dr. M. N. Sreerangaraju**

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## *Preface*

Conference word and AR Research Publication is a fast-growing group of academicians in Engineering, Sciences, and Management. A R Research Publication is also known for its fast reply and zero-error work. The conference world has organized various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and industry New Delhi, YMCA New Delhi, India International Centre New Delhi, Sri Venknteswara College of Engineering and Technology, Andhra Pradesh, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the National Conference on Multidisciplinary Approaches in Engineering, Social Sciences, and Humanities & Management. The Recent Innovations & Development in field of Engineering and Technology were addressed by the papers presented at the conference. The level of Interest in the subject matter of the conference was maintained from previous events and over 15 suitable papers were submitted for presentation at the conference.

Papers were well represented at the conference to arouse a high level of international interest. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen. The program was chaired professionally and efficiently by the session chairmen also highly gratifying, showing the high level of interest in the subject. This Proceeding provides a permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all authors in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

## About the Conference

The conference strives to bridge the gap between Industry, Academia and Researchers with emerging technologies. The conference provides a forum for the Researchers, Industry Professionals, Academicians and Students to discover and publish their innovative solutions for real time problems.

The National Conference on Multidisciplinary Approaches in Engineering, Social Sciences, Humanities & Management covers a wide array of advanced techniques and methodologies in the following areas:

### Engineering:

- Innovative and sustainable engineering solutions
- Emerging technologies in civil, mechanical, electrical, and computer engineering
- Advances in materials science and engineering
- Renewable energy systems and smart grid technology
- Robotics, automation, and artificial intelligence applications
- Environmental engineering and water resource management

### Social Sciences:

- Interdisciplinary research in sociology, psychology, and anthropology
- Public policy, governance, and administration
- Urban studies and development
- Economic theories and their applications in contemporary issues
- Social justice, human rights, and community development
- Behavioral studies and societal impacts of technology

### Humanities:

- Literary studies, critical theory, and cultural analysis
- Historical perspectives and contemporary implications
- Philosophy, ethics, and the human condition
- Art history, visual culture, and media studies
- Linguistics and language studies
- Interdisciplinary approaches to humanities research

**Management:**

- Strategic management and organizational behavior
- Innovation and entrepreneurship
- Marketing strategies and consumer behavior analysis
- Financial management and investment strategies
- Operations management and supply chain optimization
- Human resource management and leadership development

This conference serves as a platform for researchers, academics, and practitioners to share their findings, discuss challenges, and explore new directions in these diverse fields.

ESHM-2024 conference will be conducted in both online and offline modes. The conference provides a platform for Researchers, Industry Professionals, Academicians and Students across the globe to share their research innovative ideas. This conference creates the platform to discuss future research directions, find solutions for existing complex technological challenges and build networks for further research collaboration. The conference seeks submission of novel research work from Practicing Engineers, Technologists, Scientists from R & D Institutions, Research Scholars, Faculty members and Students.

**About IARDO**

International Association of Research and Developed Organization (IARDO) is a leading organization in the field of academic research activities under the banner of India Educational Charitable Trust (Regd).

International Association of Research and Developed Organization (IARDO) is an apex body that promotes and encourages commendable achievements from all over the country. The organization under conference world regularly organizes national and International level conferences with the help of its members to promote socially responsible education practices and sustainable development in economic as well social front in India.

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